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The Naval Postgraduate School in Monterey, California is a graduate university operated by the Navy but attended by all the United States Armed Services, the Department of Homeland Security and numerous international allies. It specializes in education and research focused on national security issues.

Founded in 2000, the Modeling, Virtual Environments, and Simulation (MOVES) Institute has created education and research programs supporting simulation technologies used by Defense and Homeland Security partners to train personnel and to analyze systems for operational effectiveness. These programs have been specifically designed to raise the readiness level of our nation and at a fraction of the typical cost.



The NPS campus is on 644 acres in Monterey, California

What you will see at MOVES and nowhere else in the world is a first class research facility with a permanent faculty and professional military officer graduate students of all disciplines who focus their creative energy on solving real Defense problems. Because our student population comes directly from the field, our work is highly relevant to current operational problems.

You will see Navy, Army, Air Force and Marine Corps officers working together with German, Turkish, and Bahrainian officers. You will see a very practical approach to everything we do – because these officers see the need and want these technologies in their warfighting communities now. They know what these technologies can do to save lives and get the job done.



The former CNO, Adm Clark, talks to a MOVES student.

The Institute operates as openly as it possibly can. We utilize open source and standards so that our research products can be used or adapted for use by anyone in the Defense and Homeland Security communities. The Institute is an incubator for creative ideas that will ultimately become operational products. Lastly, because lives are on the line, we validate and test everything we do, and we validate ideas using our military forces, not surrogate civilian populations, to ensure that our results are correct.

Clearly, the work being done here by the dedicated faculty, staff, and officer students of the Naval Postgraduate School's MOVES Institute is having a measurable impact on the nation. Visit us and see for yourself.



Rudy Darken, Director of the MOVES Institute



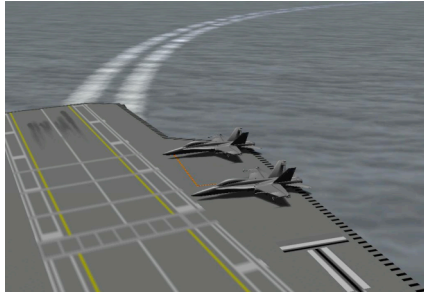
A Marine in a head-mounted display with an operational, instrumented weapon, is immersed in simulation of an urban combat scenario where he will interact with other Marines to train tactics, techniques, and procedures.



The “Cleared Hot” Forward Air Controller – Airborne trainer uses the Delta3D open source game engine developed at MOVES to train FACs in the complexity of their job. A critical element in avoiding fratricide is highly skilled FACs and Forward Observers (FOs).



A group of Marines at 29 Palms California using simulations for training. With rapidly shrinking budgets, this is a big part of the future of military training. MOVES is working to make the training cutting edge, but also affordable to build and deploy.



The SurfTACS training simulation is for teaching junior Surface Warfare Officers (ship drivers) how to maneuver their ship in a number of tactical formations required of all SWOs.



The Chromakey Augmented Virtual Environment, designed and built by a Marine Corps officer, uses a camera and Chromakey techniques (like the weatherman on TV uses) to inject a virtual environment into a real helicopter cockpit for training



The Online Mentor project for language training and cultural familiarization. This is in high demand given the need for cultural familiarization in Iraq and Afghanistan. This is delivered via the web for anytime-anywhere training.